

## ABSTRACT OF THE DISCLOSURE

This invention includes a square wave signal generating circuit 20 for generating a square wave signal whose frequency changes; a MOS transistor 12 which is turned on/off on the basis 5 of the square wave signal to supply a driving current to a vibrator 14; and a frequency shift detecting circuit 24 for detecting a frequency shift between the square wave signal from the square wave generating circuit and a resonance frequency of the vibrator. The shift in the frequency generated by the square wave generating 10 circuit is trimmed by a signal detected by the frequency shift detecting circuit.